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In Inthe application of)
PETER HO KA NAM) CERTIFICATE OF MAILING
Serial No. 10/644,181	I hereby certify that this correspondence was deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Appeal Brief-Patents, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on April 25, 2007.
Filed: 08/20/2003) (30, Alexandria, VA 22313-1430, Oli April 25, 2007.
For: MECHANICAL SWEEPER CONFIGURATION	Martha L. Hastings, Secretary to Shannon V. McCue

TRANSMITTAL SHEET

Enclosed are the following documents:

Response to Examiner's Notification of Non-Compliant Appeal Brief
(with Certificate of Mailing)
Appeal Brief (with Certificate of Mailing)
Claims Appendix
Evidence Appendix
Related Appeals and Interferences Appendix
Return Postcard

AUTHORIZATION TO CHARGE DEPOSIT ACCOUNT

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 18-0987.

Respectfully submitted,

Shannon V. McCue, Reg. No. 42,859

Renner, Kenner, Greive, Bobak, Taylor & Weber

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Attorney for Applicant

IN THE UNITED STATES APR 2.7 2007 In the application of	PATENT AND TRADEMARK OFFICE)
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For: MECHANICAL SWEEPER CONFIGURATION	Martha L. Hastings, Secretary to Shannon V. McCue

Mail Stop Appeal Brief – Patents Commissioner for Patents Alexandria, VA 22313-1450

RESPONSE TO EXAMINER'S NOTIFICATION OF NON-COMPLIANT APPEAL BRIEF

Sir:

The Applicant has received the Examiner's Notice of Non-Compliant Appeal Brief in which the Examiner notes that the Grounds of Rejection should contain only a concise explanation of each ground with no arguments appearing the section. In light of this, the Applicant has revised the Applicant's Appeal Brief to bring it in compliance. In particular, the details of the Examiner's argument appearing beneath the Grounds of Rejection have been deleted so that the Grounds of Rejection contain only a short statement of the Examiner's position.

In light of the foregoing, the Applicant believes that the attached Appeal Brief is in compliance and respectfully requests consideration thereof. If the Applicant has overlooked any issues, the Applicants requests a telephone call to the undersigned attorney.

Respectfully submitted,

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For: MECHANICAL SWEEPER	Martha L. Hastings, Secretary to Shannon V. McCue
CONFIGURATION)

Mail Stop Appeal Brief – Patents Commissioner for Patents Alexandria, VA 22313-1450

APPEAL BRIEF

Sir:

This is an Appeal to the Board of Patent Appeals from the final decision dated September 15, 2006, of the primary Examiner finally rejecting claims 1-23. A Notice of Appeal was filed November 22, 2006.

I. Real Party in Interest

The above-identified application was filed on August 20, 2003, and assigned Serial No. 10/644,181, naming Peter Ho Ka Nam as inventor. His rights were assigned to The Hoover Company. The Assignment was recorded by the United States Patent and Trademark Office at Reel/Frame 015106/0241.

II. Related Appeals and Interferences

None.

III. Status of Claims

The application was originally filed with 20 claims. In the first Office Action, the Examiner rejected claims 1-20. The Applicant responded to this Office Action with an argument and presented

new claims 21-23 for consideration. In a second Office Action, the Examiner rejected claims 1-23 and made the action Final.

IV. Status of the Amendments

All amendments to the claims have been entered. New claims 21-23 presented with the Applicant's first response have been entered

V. Summary of the Claimed Subject Matter

- 1. A mechanical sweeper 10, comprising:
 - a front housing (20);
 - a rotating brush (14, 16) secured to the front housing (20) having tangentially extending bristles adapted to engage a surface at an oblique angle (P. 4, L. 3-15, Figs. 1 and 2);
 - a frame 24 secured to a lower portion of the front housing 20 (P. 5, L. 10-11, Fig. 1);
 - a height adjustment column 40 rising from the rear of the frame 24 (P. 5, L. 13-18, Fig. 2); and
 - a dirt receptacle 30 removably positional on an upper surface of the frame 24, wherein:

the front housing 20 and column 40 serve to orient the dirt receptacle 30 in a position relative to the frame 24 (P. 5, L. 17-29, Fig. 2).

11. A mechanical sweeper 10, comprising:

- a front housing 20;
- a first and a second rotating brush 14, 16 secured to the front housing 20 each having tangentially extending bristles adapted to engage a surface at an oblique angle (P. 4, L. 3-15, Figs. 1 and 2);
- a dirt scoop 21 positioned in the upper housing 20 proximate to the point at which the bristles of the first brush 14 contact the bristles of the second brush 16 (P. 4, L. 15-

19, Fig. 3);

a frame 24 secured to a lower portion of the front housing 20 (P. 5, L. 10-11, Fig. 1);

a column 40 rising from the rear of the frame 24 (P. 5, L. 13-18, Fig. 2); and a dirt receptacle 30 removably positional on an upper surface of the frame 24 and adapted to receive dirt from the dirt scoop 21 when placed in an operational position, wherein:

the front housing 20 and column 40 serve to orient the dirt receptacle 30 in the operational position (P. 5, L. 17-29, Fig. 2).

- 21. A mechanical sweeper 10 comprising:
 - a front housing 20;

a rotating brush 14, 16 secured to the front housing 20 (P. 4, L. 3-15, Figs. 1 and 2);

a frame 24 secured to a lower portion of the front housing 20 and extending rearwardly therefrom (P. 5, L. 10-11, Figs. 1 and 2);

a height adjustment column 40 rising from said frame 24 (P. 5, L. 13-18, Fig. 2); a dirt receptacle 30 releasably attached to said frame 24 (P. 5, L. 17-29, Fig. 2); and

an adjustable wheel assembly 50 at least partially receivable within said column 40 and movable vertically to adjust the height of said frame 24 (P. 6, L. 15-P. 7, L. 10, Fig. 4), wherein said adjustable wheel assembly 50 at least partially supports said frame 24 when said dirt receptacle 30 is removed (P. 6, L. 18-20, Figs. 3 and 4).

VI. Grounds of Rejection to be Reviewed on Appeal

- A. The Examiner rejected claims 1-7 under 35 U.S.C. § 102(b) as being anticipated by Gomez, U.S. Patent No. 2,670,485.
- B. The Examiner has rejected claims 1 and 3-9 under 35 U.S.C. § 102(b) as anticipated by Parker, et al., U.S. Patent No. 2,268,059.

- C. The Examiner has rejected claims 1, 3-9 and 21-23 under 35 U.S.C. § 102(b) as anticipated by Patzold, et al., U.S. Patent No. 4,502,173.
- D. The Examiner has rejected claims 1 and 8-10 under 35 U.S.C. § 102(b) as being anticipated by Patzold, U.S. Patent No. 4,484,371, as evidenced by Patzold, U.S. Patent No. 4,502,173.
- E. The Examiner has rejected claim 11 under 35 U.S.C. § 102(b) as being anticipated by Haaga, U.S. Patent No. 5,896,611.
- F. The Examiner has rejected claims 11-12 and 18-20 under 35 U.S.C. § 102(b) as being anticipated by Haaga, U.S. Patent No. 5,184,367.
- G. The Examiner rejected claims 11 and 13-17 under 35 U.S.C. § 103(a) as being unpatentable over Haaga, U.S. Patent No. 5,184,367, in view of Parker, et al., U.S. Patent No. 2,268,059.

VII. Argument

A. The Examiner's rejection of claims 1-7 under 35 U.S.C. § 102(b) as being anticipated by Gomez, U.S. Patent No. 2,670,485, is improper.

The Examiner has rejected claims 1-7 as anticipated by Gomez, U.S. Patent No. 2,670,485. The Applicant respectfully disagrees because Gomez does not teach all of the limitations of these claims. In particular, with respect to claim 1, the Examiner argues that there is a frame 40 secured to the lower portion of Gomez's housing and a height adjustment column rising from the rear of the frame 40. The Applicant notes that the frame 40, in Gomez, does not have a column rising from it. In contrast, the column is attached to the rear of the dirt receptacle 30, which is slidably mounted on the frame 40.

Also, with respect to the orientation of the rotating brush, the Applicant respectfully disagrees with the Examiner's argument that Gomez has bristles that are adapted to engage the surface at an oblique angle. It is clear from the figures that the bristles in Gomez are adapted to contact the surface at a perpendicular angle to the surface.

While dependent claims 2-7 are believed to be patentably distinct from Gomez based on their dependency from claim 1, these claims also have independent bases for allowability. For example,

claim 2 requires a notch defined in the rear of the dirt receptacle adapted to partially extend around the column. Gomez does not have such a notch. The screw 66, which the Examiner argues is a column, is mounted outside the dirt receptacle on a mounting bracket that extends rearwardly therefrom.

With respect to claim 3, Gomez does not disclose a wheel assembly that is positioned within the column. To the extent that the Examiner has argued that screw 66 is a column, it is clear that the wheel is mounted at one end of the screw by a caster assembly and is not located within the screw 66.

B. The Examiner's rejection of claims 1 and 3-9 under 35 U.S.C. § 102(b) as being anticipated by Parker, et al., U.S. Patent No. 2,268,059, is improper.

The Examiner has rejected claims 1 and 3-9 as anticipated by Parker, U.S. Patent No. 2,268,059. Parker, like Gomez, includes a brush mounted on a horizontally extending bar such that the brush is adapted to contact the surface at a perpendicular angle. Therefore, the Applicant respectfully disagrees with the argument that the bristles are adapted to engage the surface at an oblique angle. Also, like Gomez, Parker does not teach a column rising from the rear of the frame but employs a caster that extends downward from a bracket attached to the rear of the housing. Consequently, the Applicant believes that claim 1 is not anticipated by Parker.

Dependent claims 3-9 are believed to be patentably distinct based on their dependency from claim 1 and for the reasons explained with respect to Gomez. Parker's caster, which the Examiner argues is a column and adjustable wheel assembly like the caster in Gomez, does not teach the limitations found in claims 3 and 5, as discussed above. Moreover, with respect to claims 8 and 9, the Applicant respectfully disagrees that Parker discloses a latch, as claimed. The Examiner has argued that items 33 and 34 are a latch and that the latch, column, and frame cooperate to position the dirt receptacle on the front of the housing. Items 33 are flanges that simply rest on top of a top wall 10, and item 34 is a handle that provides a surface that the user can grip. None of these items would be considered a latch by one of ordinary skill. Moreover, these items do not interact in any way with the caster, which the Examiner has referred to as a column, to orient the dirt receptacle

relative to the housing. Consequently, the Applicant believes that claims 1 and 3-9 are not anticipated by Parker and respectfully requests reconsideration of this rejection.

C. The Examiner's rejection of claims 1, 3-9, and 21-23 under 35 U.S.C. § 102(b) as being anticipated by Patzold, U.S. Patent No. 4,502,173, is improper.

With respect to claim 1, the Examiner argues that Patzold '173 teaches a frame secured to a lower portion of the front housing, where the frame has a height adjustment column rising from the rear of the frame. The Applicant respectfully disagrees because Patzold '173 does not have a height adjustment column rising from the rear of the frame as claimed. The Examiner argues that item 57 is a height adjustment column rising from the rear of frame. As a first matter, the Applicant respectfully disagrees because it does not rise from the rear of the frame but is located in the front of the sweeper and extends downwardly from a cover. More importantly, however, item 57 does not serve to orient a dirt receptacle as claimed. Although not explicitly described in Patzold '173, it appears that Patzold does not include a removable dirt receptacle as in the claimed invention but instead has a cover at the rear of the housing that may be removed to empty any dirt received within the housing 11. As best seen in Fig. 1, a handle is provided on the cover for this purpose. The cover does not interact with item 57 and, therefore, is not oriented by it. Consequently, the Applicant believes that the invention of claims 1, 3-9, and 21-23 is not anticipated since all of these claims require a column rising from the frame.

Separately, with respect to claim 21, this claim also requires that the column at least partially receive the adjustable wheel assembly and that the wheel assembly partially support the frame when the dirt receptacle is removed. It is clear that Patzold does not disclose a column that partially receives the wheel assembly. Item 57, which the Examiner refers to as a column, does not partially receive any wheels. In Patzold '173, the wheel assemblies are separately attached to the sides of the housing 11. Therefore, the Applicant respectfully requests reconsideration of the rejection of claims 1, 3-9, and 21-23.

D. The Examiner's rejection of claims 1 and 8-10 under 35 U.S.C. § 102(b) as being anticipated by Patzold, U.S. Patent No. 4,484,371, as evidenced by Patzold, U.S. Patent No. 4,502,173, is improper.

The Examiner has argued that claims 1 and 8-10 are anticipated by Patzold, U.S. Patent No. 4,484,371. The Applicant respectfully disagrees because Patzold '371 does not teach each element of the claims. In particular, Patzold does not disclose a column, as claimed. The Examiner points to the round element in Fig. 1, which is not described or shown in the figures. The Examiner refers to another patent, U.S. Patent 4,502,173, in effect admitting that all of the required teachings are not found in the '371 patent. Consequently, the Applicant respectfully requests reconsideration of the rejection of claims 1 and 8-10.

E. The Examiner's rejection of claim 11 under 35 U.S.C. § 102(b) as being anticipated by Haaga, U.S. Patent No. 5,896,611, is improper.

The Examiner rejected claim 11 as anticipated by Haaga, U.S. Patent No. 5,896,611. The Applicant respectfully disagrees because Haaga '611 does not disclose a column, as claimed. In particular, the Examiner has argued that item 30 is a column, but this refers to the pushing arm (col. 5, lines 15-17). Moreover, Haaga does not disclose a separate frame to which the housing is attached. As a result, the requirement that the column rise upwardly from the frame is also not disclosed in the '611 patent. Instead, the '611 patent teaches attachment of the push bar 30 to the housing 10. Similarly, the '611 patent does not teach the requirement that the frame be secured to a lower portion of the housing. Consequently, the Applicant respectfully requests reconsideration of this rejection.

F. The Examiner's rejection of claims 11-12 and 18-20 under 35 U.S.C. § 102(b) as being anticipated by Haaga, U.S. Patent No. 5,184,367, is improper.

The Examiner has rejected claims 11-12 and 18-20 as anticipated by Haaga, U.S. Patent No. 5,184,367. The Applicant respectfully disagrees because Haaga does not teach a column, as claimed. The Examiner has argued that item 21 is a column, but review of the specification clarifies that this

refers to the vertex of a hook-shaped profiling 18. Moreover, the profiling 18 does not rise from the rear of the frame, as claimed. As best shown in Fig. 1, the profiling 18, which acts as a locating lip that allows the rear portion of Haaga's housing to be tilted away from the front portion, is located centrally. Also, Haaga does not disclose a frame but instead describes a two-piece housing. Consequently, the limitation that the column rise from the frame and that the frame be secured to the front housing are not disclosed by Haaga. Consequently, the Applicant requests reconsideration of this rejection. Also, Haaga does not disclose a dirt scoop positioned in the upper housing proximate to the point at which the bristles of the first brush contact the bristles of the second brush. In light of the foregoing, the Applicant believes that claims 11-12 and 18-20 are in condition for allowance and respectfully requests notice of the same.

With respect to the dependent claims, the Applicant notes that while these claims are believed to be in condition for allowance based on their dependency from claim 11, these claims are believed to contain independent bases of allowability as well. For example, since Haaga lacks a column, it cannot teach a notched defined in the rear of the dirt receptacle adapted to partially extend around the column. In considering Haaga, no notch is formed in the rear of the dirt receptacle 2.

G. The Examiner's rejection of claims 11 and 13-17 under 35 U.S.C. § 103(a) as being unpatentable over Haaga, U.S. Patent No. 5,184,367, in view of Parker, U.S. Patent No. 2,268,059, is improper.

The Examiner has rejected claims 11 and 13-17 as obvious over Haaga '376 in view of Parker. The Applicant respectfully disagrees because even if one of ordinary skill were motivated to combine these patents, they would not arrive at the claimed invention. In particular, as discussed at length above, Parker does not disclose a column as claimed. In particular, Parker does not disclose a column rising upward from the rear of a frame but instead employs a caster mounted on a bracket attached to the sweeper housing. As described in the Applicant's specification on page 2, second paragraph, attachment of the wheel to the rear of the housing is disadvantageous in that removal of the dirt receptacle would prevent movement of the remainder of the sweeper. Such would be the case if one were to combine Parker and Haaga as suggested by the Examiner. Moreover, Parker's caster, which the Examiner describes as being a column, is not capable of working to orient the dirt

receptacle, as claimed.

Also, as discussed above, Haaga does not disclose a dirt scoop, as claimed in claim 11. Consequently, even if one of ordinary skill were to combine Haaga with Parker, which the Examiner has cited as providing a column with an adjustable wheel assembly, one of ordinary skill would not arrive at the claimed invention.

While the dependent claims are believed to be in condition for allowance based on their dependency from claim 11, these claims contain additional bases for allowability. For example, as discussed above, Parker does not disclose a wheel mounted within the column. Consequently, claim 13 and those that depend from it are not obvious over Haaga '376 in view of Parker. In light of the foregoing, the Applicant respectfully requests reconsideration of the rejection of claims 11 and 13-17.

VIII. Claims Appendix

Attached.

IX. Evidence Appendix

Attached.

X. Related Appeals and Interferences Appendix

Attached.

Respectfully submitted,

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Attorney for Applicant

CLAIMS APPENDIX

- 1. (Original). A mechanical sweeper, comprising:
 - a front housing;
 - a rotating brush secured to the front housing having tangentially extending bristles adapted to engage a surface at an oblique angle;
 - a frame secured to a lower portion of the front housing;
 - a height adjustment column rising from the rear of the frame; and
 - a dirt receptacle removably positional on an upper surface of the frame, wherein:

the front housing and column serve to orient the dirt receptacle in a position relative to the frame.

- 2. (Original). The mechanical sweeper of claim 1, further comprising a notch defined in the rear of the dirt receptacle adapted to partially extend around the column.
- 3. (Original). The mechanical sweeper of claim 1, further comprising an adjustable wheel assembly positioned within the column.
- 4. (Original). The mechanical sweeper of claim 3, the adjustable wheel assembly further comprising a rotary knob on top of the column.
- 5. (Original). The mechanical sweeper of claim 4, further comprising a cam which moves the adjustment wheel up and down relative to the frame as the knob is rotated.
- 6. (Original). The mechanical sweeper of claim 3, wherein moving the adjustment wheel downwardly relative to the frame increases the force of the brush on the surface.

- 7. (Original). The mechanical sweeper of claim 3, wherein moving the adjustment wheel upwardly relative to the frame decreases the force of the brush on the surface.
- 8. (Original). The mechanical sweeper of claim 1, further comprising a latch positioned on the upper portion of the dirt receptacle.
- 9. (Original). The mechanical sweeper of claim 8, wherein the latch, column and frame cooperate to position the dirt receptacle relative to the front housing.
- 10. (Original). The mechanical sweeper of claim 8, wherein the latch moves in a linear path to engage a catch defined in the upper portion of the front housing.
- 11. (Previously Presented). A mechanical sweeper, comprising:
 - a front housing;
 - a first and a second rotating brush secured to the front housing each having tangentially extending bristles adapted to engage a surface at an oblique angle;
 - a dirt scoop positioned in the upper housing proximate to the point at which the bristles of the first brush contact the bristles of the second brush;
 - a frame secured to a lower portion of the front housing;
 - a column rising from the rear of the frame; and
 - a dirt receptacle removably positional on an upper surface of the frame and adapted to receive dirt from the dirt scoop when placed in an operational position, wherein:
 - the front housing and column serve to orient the dirt receptacle in the operational position.
- 12. (Original). The mechanical sweeper of claim 11, further comprising a notch defined in the rear of the dirt receptacle adapted to partially extend around the column.

- 13. (Original). The mechanical sweeper of claim 11, further comprising an adjustable wheel assembly positioned within the column.
- 14. (Original). The mechanical sweeper of claim 13, the adjustable wheel assembly further comprising a rotary knob on top of the column.
- 15. (Original). The mechanical sweeper of claim 14, further comprising a cam assembly which moves the adjustment wheel up and down relative to the frame as the knob is rotated.
- 16. (Original). The mechanical sweeper of claim 13, wherein:

moving the adjustment wheel downwardly relative to the frame increases the force of the first brush on the surface, and

moving the adjustment wheel downwardly relative to the frame increases the force of the second brush on the surface.

17. (Original). The mechanical sweeper of claim 13, wherein:

moving the adjustment wheel upwardly relative to the frame decreases the force of the first brush on the surface, and

moving the adjustment wheel upwardly relative to the frame decreases the force of the second brush on the surface.

- 18. (Original). The mechanical sweeper of claim 11, further comprising a latch positioned on the upper portion of the dirt receptacle.
- 19. (Original). The mechanical sweeper of claim 18, wherein the latch, column and frame cooperate to position the dirt receptacle relative to the scoop.

- 20. (Previously Presented). The mechanical sweeper of claim 18, wherein the latch moves in a linear path to engage a catch defined in the upper portion above the scoop.
- 21. (Previously Presented). A mechanical sweeper comprising:
 - a front housing;
 - a rotating brush secured to the front housing;
 - a frame secured to a lower portion of the front housing and extending rearwardly therefrom;
 - a height adjustment column rising from said frame;
 - a dirt receptacle releasably attached to said frame; and an adjustable wheel assembly at least partially receivable within said column and movable vertically to adjust the height of said frame, wherein said adjustable wheel assembly at least partially supports said frame when said dirt receptacle is removed.
- 22. (Previously Presented). The mechanical sweeper of claim 21, wherein said frame defines a wheel well for at least partially receiving a wheel in said adjustable wheel assembly, wherein said column attaches to said frame over said wheel well.
- 23. (Previously Presented). The mechanical sweeper of claim 21, wherein said dirt receptacle defines a notch for at least partially receiving said column, wherein said column is engageable with said notch to orient said dirt receptacle relative to said frame.

Evidence Appendix

None.

Related Appeals and Interferences Appendix

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